

Orca-50 & Orca-50-Air Handheld Data Terminal

Features



High Performance Computing Platform

Heavy duty applications such as massive data collection, 3D real-time display can be operated smoothly.



Android 6.0

Android 6.0 system is installed, optimized version is continuously updated.



Top Class Materials

CNC aluminum, PC+ABS (SABIC) and 1.1mm thickness tempered glass offer excellent strength + heat dissipation + electromagnetic shielding. The soft material around the handle offers comfort.



Industrial Grade Components

Industrial and military grade components ensure stability and endurance in harsh environments.



Ultra Long Operating Time

Pistol style hotswapping battery system makes backup battery more convenient to be restored, so that the operating time is unlimited. A standard product package has two 6,000mAh batteries included.



High-end UHF RFID Engine

The M-2600 module which is designed by RodinBell is based on Impinj Indy R2000 chip, offering the best performance and excellent multi-tag identification ability in the industry.



Outstanding Industrial Design

The idea was inspired by orca, and each single detail has been well refined. The appearance is compact, elegant and balanced, which makes the product eye-catching and impressive.



Excellent Mechanical Protection

The safety drop height is 2m / 6.56ft., IP64 protection grade can resist dusts and splashes effectively.

Mechanical Parameters

Materials	CNC aluminum, PC+ABS (SABIC)
Dimensions	160/167*82*129mm Grip 111*38*47mm
Weight	580g (standard version including battery)

System Characteristics

Operating System	Android 6.0
CPU	Quad-core Cortex-A17 / 1.8 GHz
GPU	ARM Mali-T764 / High performance 3D engine
RAM + ROM	2G+32G, 4G+64G <small>Optional</small>
LCD	5.0 inches / 1280*720 / IPS / 180° view angle
Touch Screen	1.1mm thickness tempered glass / 10-dot touch / operable with gloves
Hotswapping Battery	Pistol style hotswapping battery system
PSAM	PSAM*1 / TI TCA5013 <small>Optional</small>
Buttons	
Power / Volume*2	3 ALPS buttons / Operating force 2.5N / Operating life 1,000,000 cycles
Function Keys	3 ALPS buttons / Operating force 2.5N / Operating life 1,000,000 cycles
Scan Trigger	OMRON button / Operating force 1.27N / Operating life 10,000,000 cycles
Power	6,000mAh chargeable li-polymer battery
Card Slots	Micro SIM card slot / PSAM card slot*1
USB Interface	Micro USB / MOLEX connector / Operating life 10,000 cycles
Audio	Large speaker stereo system
Vibrator	Button style / 10mm diameter
Charge Indicator	Bicolor LED

Wireless Communications

WIFI	IEEE802.11b/g/n
Bluetooth	Bluetooth 4.0
3G	Supported <small>Optional</small>
4G	Supported <small>Optional</small>

Application Environment

Operating Temp	-20°~+60°
Storage Temp	-30°~+70°
Humidity	5%RH ~ 95%RH (non-condensing)
Protection Grade	IP64
Safety Drop Height	2m / 6.56ft.

Data Collections

1D Barcode <small>Optional</small>	
Engine	Motorola EM1350
Support	UPC/EA Symbol SE955N / Code128 / Code39 / Code93 / Code11 / Interleaved 2 of 5 / Discrete 2 of 5 / Chinese 2 of 5 / Codabar/ MSI/RSS. etc.

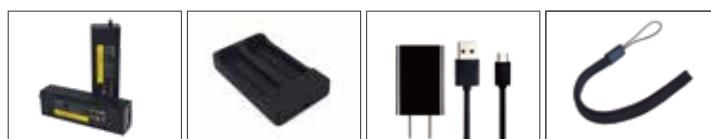
2D Barcode <small>Optional</small>	
Engine	Honeywell N3680, NLS EM3396
Support	Data matrix / QR Code/PDF417/ US Planet / UK Postal, etc.

UHF RFID	
Engine	RodinBell M-2600 module based on Impinj Indy R2000 chip
Buzzer	Ø 12*9.5mm / 2300±300Hz
Protocol	EPC Global UHF Class 1 Gen 2 / ISO 18000-6C / ISO 18000-6B
Frequency	902~928MHz, 865~868MHz <small>Optional</small>
Output Power	0~33dBm
Peak Inventory Speed	> 500 tags/s
UHF Antenna	4dBi deelectric antenna
Read Distance	above 10m (tested with Impinj E41b inlay)
Supported Regions	US, Canada and other regions following U.S. FCC Europe and other regions following ETSI EN 302 208 China Japan Korea Malaysia

Camera <small>Optional</small>	13 megapixels / automatic focus / flashlight
---------------------------------------	--

Global positioning system	GPS&GLONASS
----------------------------------	-------------

Accessories



Two Batteries

Battery Bay

Charger&USB
Data Cable

Hanging Lace

Orca-50-Air

Handheld Data Terminal



Latest air dielectric antenna technology

Offers 30% - 50% performance increase.